

Title (en)
SYSTEMS AND METHODS FOR HIGH ACCURACY FIXTURELESS ASSEMBLY

Title (de)
SYSTEME UND VERFAHREN FÜR HOCHPRÄZISE BEFESTIGUNGSLOSE ANORDNUNG

Title (fr)
SYSTÈMES ET PROCÉDÉS DESTINÉS À UN MONTAGE HAUTE PRÉCISION SANS ACCESSOIRE

Publication
EP 3898075 A1 20211027 (EN)

Application
EP 19899588 A 20191217

Priority

- US 201816222926 A 20181217
- US 2019066759 W 20191217

Abstract (en)
[origin: US2020192311A1] An approach to positioning one or more robotic arms in an assembly system may be described herein. For example, a system for robotic assembly may include a first robot, a second robot, and a control unit. The control unit may be configured to receive a first target location proximal to a second target location. The locations may indicate where the robots are to position the features. The control unit may be configured to calculate a first calculated location of the first feature of the first subcomponent, measure a first measured location of the first feature of the first subcomponent, determine a first transformation matrix between the first calculated location and the first measured location, reposition the first feature of the first subcomponent to the first target location using the first robot, the repositioning based on the first transformation matrix.

IPC 8 full level
B23P 21/00 (2006.01); **B23P 19/04** (2006.01); **G05B 19/418** (2006.01)

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Designated extension state (EPC)
BA ME

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US 11449021 B2 20220920; **US 2020192311 A1 20200618**; CN 111318698 A 20200623; CN 111318698 B 20240322; CN 117884658 A 20240416; CN 211803821 U 20201030; EP 3898075 A1 20211027; EP 3898075 A4 20221221; JP 2022517303 A 20220308; KR 20210125481 A 20211018; US 2023158675 A1 20230525; WO 2020131817 A1 20200625

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US 201816222926 A 20181217; CN 201911304266 A 20191217; CN 201922270385 U 20191217; CN 202410249265 A 20191217; EP 19899588 A 20191217; JP 2021534991 A 20191217; KR 20217022353 A 20191217; US 2019066759 W 20191217; US 202217814441 A 20220722